

ABSTRACT OF THE DISCLOSURE

A gearless cable-operated elevator without machine room may include: a cage, counterweight, plurality of carrier cables, cage and counterweight guide rails, and drive and counter sheaves. The cage and counterweight may be supported by the cables. The cage may be guided by the cage guide rails. The counterweight may be guided by the counterweight guide rails. The drive and counter sheaves may be spaced apart. The cables may wrap at least partially around the drive sheave, the counter sheave, the drive sheave again, and the counter sheave again. The drive sheave may be configured to act on the cables in order to move the cage and counterweight. Each cable may have a nominal diameter greater than 5 mm and less than 7 mm. A ratio of the drive sheave diameter to the cable nominal diameter may be greater than or equal to 30:1 and less than or equal to 40:1.